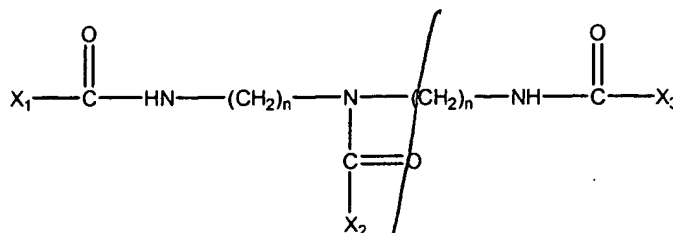


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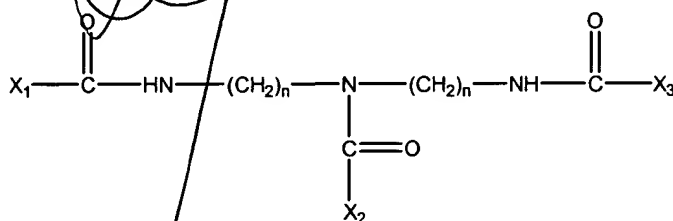
wherein:

$n$  is an integer from 2-8;

$\text{X}_1$  is a cholic acid group or deoxycholic acid group; and  $\text{X}_2$  and  $\text{X}_3$  are each independently selected from the group consisting of a cholic acid group, a deoxycholic acid group, and a saccharide group, wherein the saccharide group is selected from the group consisting of pentose monosaccharide groups, hexose monosaccharide groups, pentose-pentose disaccharide groups, hexose-hexose disaccharide groups, pentose-hexose disaccharide groups, and hexose-pentose disaccharide groups;

and wherein at least one of  $\text{X}_2$  and  $\text{X}_3$  is a saccharide group.

22. (Amended) A pharmaceutical composition comprising a mucoadhesive and a therapeutically effective amount of a therapeutic agent formulated in a buffer comprising a compound of Formula I:



wherein:

$n$  is an integer from 2-8;

$\text{X}_1$  is a cholic acid group or deoxycholic acid group; and  $\text{X}_2$  and  $\text{X}_3$  are each independently selected from the group consisting of a cholic acid group, a deoxycholic acid group, and a saccharide group, wherein the saccharide group is selected from the group consisting of pentose monosaccharide groups, hexose monosaccharide groups, pentose-pentose disaccharide groups, hexose-hexose disaccharide groups, pentose-hexose disaccharide groups, and hexose-pentose disaccharide groups;

and wherein at least one of  $\text{X}_2$  and  $\text{X}_3$  is a saccharide group.

$$\begin{array}{c} \text{O} \qquad \qquad \qquad \text{O} \\ \parallel \qquad \qquad \qquad \parallel \\ \text{X}_1 - \text{C} - \text{HN} - (\text{CH}_2)_n - \text{N} - (\text{CH}_2)_n - \text{NH} - \text{C} - \text{X}_3 \\ | \\ \text{C} = \text{O} \\ | \\ \text{X}_2 \end{array}$$

and wherein at least one of  $X_2$  and  $X_3$  is a saccharide group.

$$\begin{array}{c} \text{O} \\ \parallel \\ \text{X}_1 - \text{C} - \text{HN} - (\text{CH}_2)_n - \text{N} - (\text{CH}_2)_n - \text{NH} - \text{C} - \text{X}_3 \\ \parallel \\ \text{C} = \text{O} \\ | \\ \text{X}_2 \end{array}$$

$n$  is an integer from 2-8;